

INTERNATIONAL SEARCH REPORT

PCT/GB 03/05576

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07B59/00 C07C309/73 C07C309/68 A61K51/04
//A61K101:02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07B C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	LAURENT MARTARELLO ET AL.: "Synthesis of syn- and anti-1-Amino-3-' ¹⁸ F-fluoromethyl-cyclobutane-1-carboxylic Acid (FMACBC), Potential PET Ligands for Tumor Detection" J. MED. CHEM., vol. 45, 26 April 2002 (2002-04-26), pages 2250-9, XP002276531 cited in the application the whole document ----- -/-	1,8,9, 12-14

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the International search

15 April 2004

Date of mailing of the International search report

03/05/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Diederer, J

INTERNATIONAL SEARCH REPORT

PCT/GB 03/05576

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	TIMOTHY M. SHOUP ET AL.: "Synthesis and Evaluation of '18F11-Amino-3-fluorocyclobutane-1-carboxylic Acid to Image Brain Tumors" J. NUCL. MED., vol. 40, no. 2, 1999, pages 331-8, XP0008029597 cited in the application the whole document	1,8,9, 12-14
A	----- WO 97/17092 A (UNIV EMORY) 15 May 1997 (1997-05-15) cited in the application the whole document -----	1,8,9, 12-14

Form PCT/ISA/210 (continuation of second sheet) (January 2004)

BEST AVAILABLE COPY

page 2 of 2

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB 03/05576

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 1-3, 7, 8, 12-14
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-3,7,8,12-14

Present claims 1-3,7,8,12-14 relate to an extremely large number of possible compounds, methods, kits, cartridges and processes. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds, methods, kits, cartridges and processes claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds, methods, kits, cartridges and processes in which a compound of Formula (Ia) is used.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/GB 03/05576

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9717092	A	15-05-1997	US 5808146 A	15-09-1998
			AU 720738 B2	08-06-2000
			AU 1120497 A	29-05-1997
			CA 2237218 A1	15-05-1997
			EP 0862464 A1	09-09-1998
			JP 2000500442 T	18-01-2000
			WO 9717092 A1	15-05-1997
			US 5817776 A	06-10-1998